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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,906	06/27/2003	Sohel Anwar	46107-0037	8032
7590	11/02/2005			EXAMINER
Douglas A. Mullen Dickson Wright PLLC Suite 800 1901 L. Street NW Washington, DC 20036			SICONOLFI, ROBERT	
			ART UNIT	PAPER NUMBER
			3683	
DATE MAILED: 11/02/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/608,906	ANWAR, SOHEL	
	Examiner	Art Unit	
	Robert A. Siconolfi	3683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 July 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 6-10, 19 and 20 is/are allowed.
- 6) Claim(s) 1-5, 11-18 and 21-23 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,2,13,14,21,22 are rejected under 35 U.S.C. 102(b) as being anticipated by Furukawa et al (U. S. Patent no. 6,334,656).

See entire document. Furukawa et al discloses a vehicle stability/yaw control system that uses a sliding mode model. See equation 8. Furukawa et al calculates a desired yaw and applies a controlled yaw moment to achieve this based on a feedback setup (see abstract, claim 1, figures 4 and 5).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa.

Furukawa et al is relied upon as above in paragraph 2. Furukawa et al does not disclose the exact equation claimed. Furukawa discloses a similar equation. The equation

claimed is derived from the sliding mode control law which is a known concept. It would have been obvious to one of ordinary skill in the art at the time the invention was made to derive a specific equation from the sliding mode control as such is merely a design choice on the variables one desires to use.

5. Claims 4,5,11,12,15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa et al in view of Park et al (U. S. Patent no. 6,286,637). Furukawa et al is relied upon as above in paragraph 2. Furukawa et al does not disclose the use of eddy current brakes with the yaw control system. Park et al teaches an eddy current brake that is designed to be used with a brake system using the sliding mode control model (see column 4 lines 55-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the eddy current brake as taught by Park in the system of Furukawa et al in order to have a supplemental brake that does not wear out over time.

6. Claims 6-10 and 19, 20 are allowed.

Response to Arguments

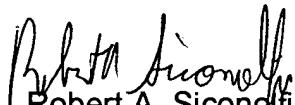
7. Applicant's arguments with respect to claims 1-5 11-18 21-23 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 3683

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 571-272-7124. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on 571 272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


10/28/05
Robert A. Siconolfi
Primary Examiner
Art Unit 3683

RS